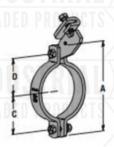
FIG. 4LA "In-Line" Sway Brace Attachment









Material: Steel

Finish: Plain, Electro-Galvanized.

Service: For bracing pipe against sway and seismic disturbance.

Approvals: Underwriters Laboratories Listed in the USA (UL) and Canada

(cUL) 1" (25mm) through 10" (250mm) pipe. Approved Factory Mutual Engineering (FM) 1" (25mm) through 12" (300mm) pipe.

Ordering: Figure number, pipe size, and finish.

The diagram represents pipe sizes for 1" through 4"

Pipe Size	A		С		D		Bolt	Approximate Wgt/100	
in (mm)	in	mm	in	mm	in	mm	Size	in (mm)	
1 (25)	3 -19/32	91.2	1-5/16	33.5	1-5/16	33.5	3/8"-16	119 (54.0)	
1-1/4 (32)	3-29/32	99.3	1-3/8	35.3	1-3/8	35.3	3/8"-16	123 (55.8)	
1-1/2 (40)	4-5/32	105.7	1-1/2	38.5	1-1/2	38.5	3/8"-16	127 (57.6)	
2 (50)	5-11/32	135.6	2-1/32	51.9	2-1/16	51.9	3/8"-16	142 (64.4)	
2-1/2 (65)	6-1/2	148.7	2-5/16	58.5	2-5/16	58.5	3/8"-16	173 (78.5)	
3 (80)	5- ²⁷ / ₃₂	164.9	2-5/8	66.6	2-5/8	66.6	3/8"-16	187 (84.8)	
3-1/2 (90)	7-13/32	188.1	2-7/8	73.1	2-7/8	73.1	3/8"-16	198 (89.8)	
4 (100)	7-17/32	191.3	3-1/8	79.5	3-1/8	79.5	3/8"-16	209 (94.8)	
5 (125)	8-1/4	222.3	3-5/8	92.1	3-5/8	92.1	1/2"-13	298 (135.2)	
6 (150)	10-5/8	269.9	4 - ⁹ / ₁₆	115.9	4-9/16	115.9	1/2"-13	521 (236.3)	
8 (200)	12-13/16	325.5	5- ⁹ / ₁₆	143.7	5-21/32	143.7	1/2"-13	629 (285.3)	
10 (250)	16-1/2	419.1	7-1/4	184.2	7-1/4	184.2	1/2"-13	1320 (598.7)	
12 (300)	18- ¹ / ₂	469.9	8-1/4	309.6	8-1/4	309.6	1/2"-13	1496 (678.6)	

(additional charts on the following page)



FIG. 4LA "In-Line" Sway Brace Attachment (continued from previous page)

Longitudinal Loads	Max Horizontal	IMP	Max Horizontal Design Load (FM)								
Pipe Size in (mm)	Design Load (UL) Ibs (kN)	30-44 degrees		45-59 degrees		60-74 degrees		75-90degrees			
		Lbs	kN	Lbs	kN	Lbs	kN	Lbs	kN		
1 (25)	1000 (4.45)	680	3.02	970	4.31	1190	5.29	1320	5.87		
1-1/4 (32)	1000 (4.45)	680	3.02	970	4.31	1190	5.29	1320	5.87		
1-1/2 (40)	1000 (4.45)	680	3.02	970	4.31	1190	5.29	1320	5.87		
2 (50)	1000 (4.45)	680	3.02	860	3.82	1030	4.58	1320	5.87		
2-1/2 (65)	1000 (4.45)	680	3.02	970	4.31	1190	5.29	1320	5.87		
3 (80)	1000 (4.45)	680	3.02	970	4.31	1190	5.29	1320	5.87		
3-1/2 (90)	1000 (4.45)	680	3.02	970	4.31	1190	5.29	1320	5.87		
4 (100)	1000 (4.45)	680	3.02	970	4.31	1190	5.29	1320	5.87		
5 (125)	1600 (7.11)	/		DU070	77.71	/ (-) <u>_</u>	TIME	OQII			
6 (150)	1600 (7.11)	1620	7.20	2260	10.05	2010	8.94	2220	9.87		
8 (200)	2015 (8.96)	1620	7.20	1660	7.38	1570	6.98	1740	7.74		
10 (250)	2765 (12.30)	1620	7.20	1660	7.38	1570	6.98	1740	7.74		
12 (300)		1620	7.20	1660	7.38	1570	6.98	1740	7.74		

Lateral Loads	Max Horizontal		Max Horizontal Design Load (FM)						
Pipe Size in (mm)	Design Load (UL) lbs (kN)	30-44 degrees		45-59 degrees		60-74 degrees		75-90degrees	
		Lbs	kN	Lbs	kN	Lbs	kN	Lbs	kN
1 (25)	1000 (4.45)	680	3.02	970	4.31	1190	5.29	1320	5.87
1-1/4 (32)	1000 (4.45)	680	3.02	970	4.31	1190	5.29	1320	5.87
1-1/2 (40)	1000 (4.45)	680	3.02	970	4.31	1190	5.29	1320	5.87
2 (50)	1000 (4.45)	680	3.02	970	4.31	1190	5.29	1320	5.87
2-1/2 (65)	1000 (4.45)	680	3.02	970	4.31	1190	5.29	1320	5.8
3 (80)	1000 (4.45)	680	3.02	970	4.31	1190	5.29	1320	5.83
3-1/2 (90)	1000 (4.45)	680	3.02	970	4.31	1190	5.29	1320	5.87
4 (100)	1000 (4.45)	680	3.02	970	4.31	1190	5.29	1320	5.87
5 (125)	1600 (7.11)		HAT		7 - 74	1 - 1	1		-
6 (150)	1600 (7.11)	1620	7.20	2300	10.23	2820	13.96	3140	13.9
8 (200)	2015 (8.96)	1620	7.20	2300	10.23	2820	13.96	3140	13.9
10 (250)	2765 (12.30)	1620	7.20	2300	10.23	2820	13.96	3140	13.9
12 (300)	A	1620	7.20	2300	10.23	2820	13.96	3140	13.9

Project In	Approval Stamp				
Project:	INDUSTRIAL //	Notes:			
Address:	Contractor:	THREADED PRODUCTS			
Date:	Engineer:				
Approved Approved as	MINDUCTRIAL				